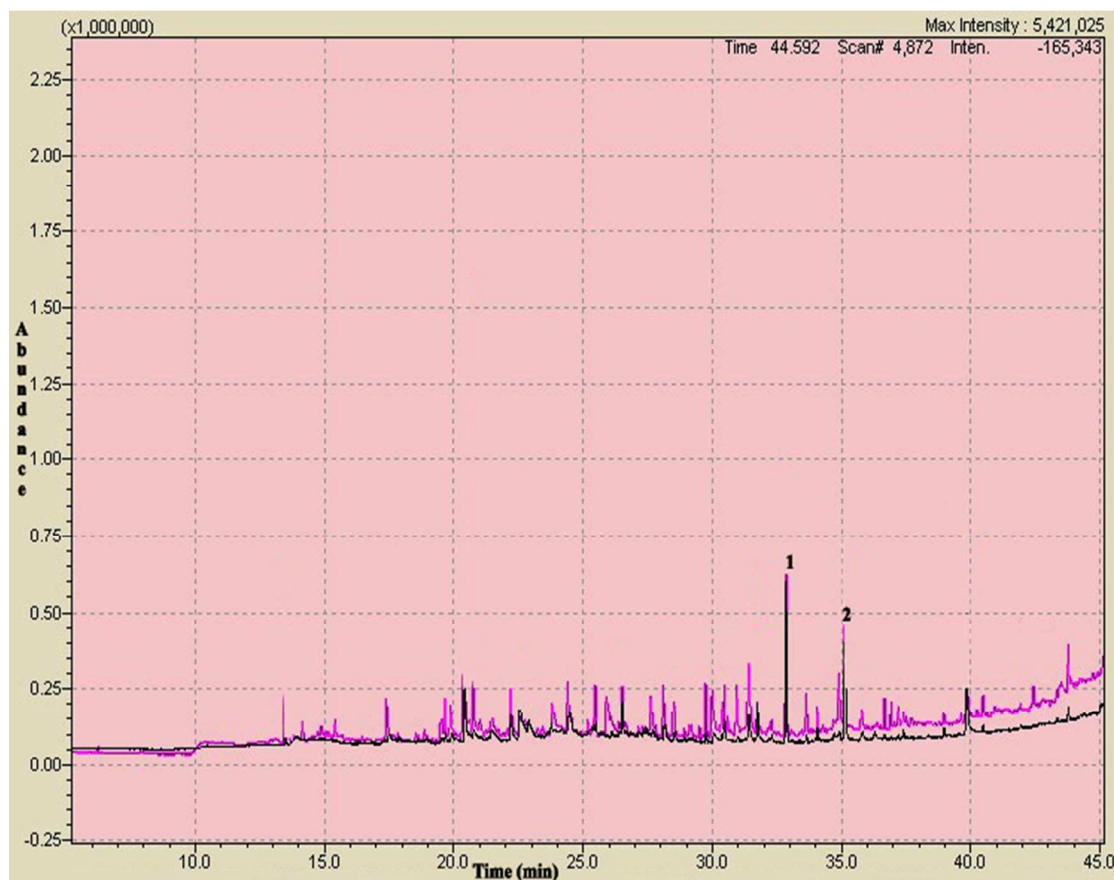


## Supplementary data

Fig. 1 Comparison of GC-MS chromatograms of aquaria water samples at 1 h (black line) and 24 h (pink line) after the renewal of endosulfan concentration. Peaks 1 and 2 are the  $\alpha$ - and  $\beta$ -endosulfan, respectively.



**Table 1:** Phytocomponents identified in the active methanolic fraction (ME-F2) of *P. hexandrum* by GC-MS.

No.	RT	Compound name	Mol. formula	MW	Compound nature	Peak-area %
1.	9.06	Tetradecane	C <sub>14</sub> H <sub>30</sub>	198	Alkane hydrocarbon	0.43
2.	11.11	2,3-dihydro-3,5-dihydroxy-6-methyl-4H-pyran-4-one	C <sub>6</sub> H <sub>8</sub> O <sub>4</sub>	144	Flavonoid fraction	30.96
3.	14.18	5-(Hydroxymethyl)-2-furancarboxaldehyde	C <sub>6</sub> H <sub>6</sub> O <sub>3</sub>	126	Aldehyde compound	28.65
4.	27.40	Hexadecanoic acid, methyl ester	C <sub>17</sub> H <sub>34</sub> O <sub>2</sub>	270	Fatty acid ester	27.07
5.	29.07	9, 12-Octadecadienoic acid, methyl ester (Z,Z)	C <sub>19</sub> H <sub>34</sub> O <sub>2</sub>	294	Linoleic- acid, methyl-ester	2.08
6.	32.24	9, 12,15-Octadecatrienoic acid, methyl ester, (Z,Z,Z)	C <sub>19</sub> H <sub>32</sub> O <sub>2</sub>	292	Linoleic- acid, methyl-ester	2.16
7.	48.36	deoxy-podophyllotoxin	C <sub>22</sub> H <sub>22</sub> O <sub>7</sub>	398	Lignan	2.83
8.	48.69	podophyllotoxin	C <sub>22</sub> H <sub>22</sub> O <sub>8</sub>	414	Lignan	2.92
9.	49.66	epiisopodophyllotoxin-acetate	C <sub>24</sub> H <sub>24</sub> O <sub>9</sub>	456	Lignan	0.47
10.	51.27	9H-Furo[2,3-H]chromene-2,8-dione, 4-methyl-9-(3,4,5-trimethoxybenzylidene)	C <sub>22</sub> H <sub>18</sub> O <sub>7</sub>	394	Chromene compound	2.34

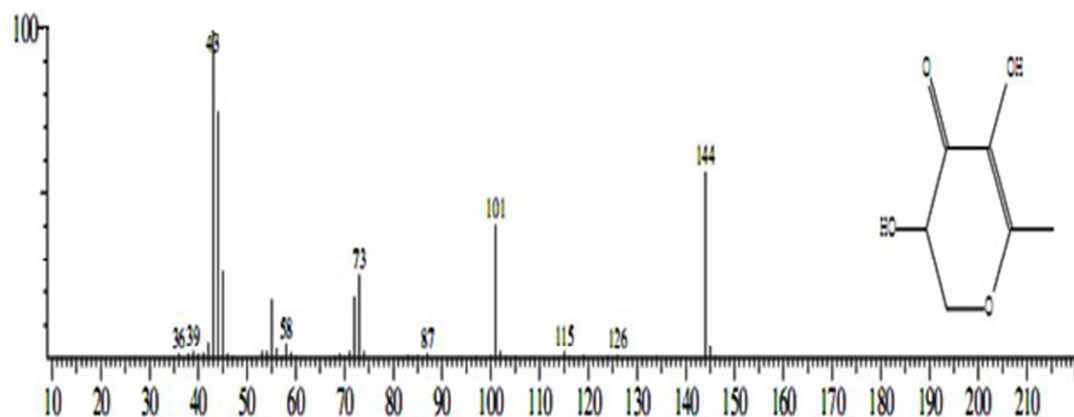


Fig. 2 Mass spectrum of the major compound of methanolic fraction (ME-F2): 2,3-dihydro-3,5-dihydroxy-6-methyl-4H-pyran-4-one.

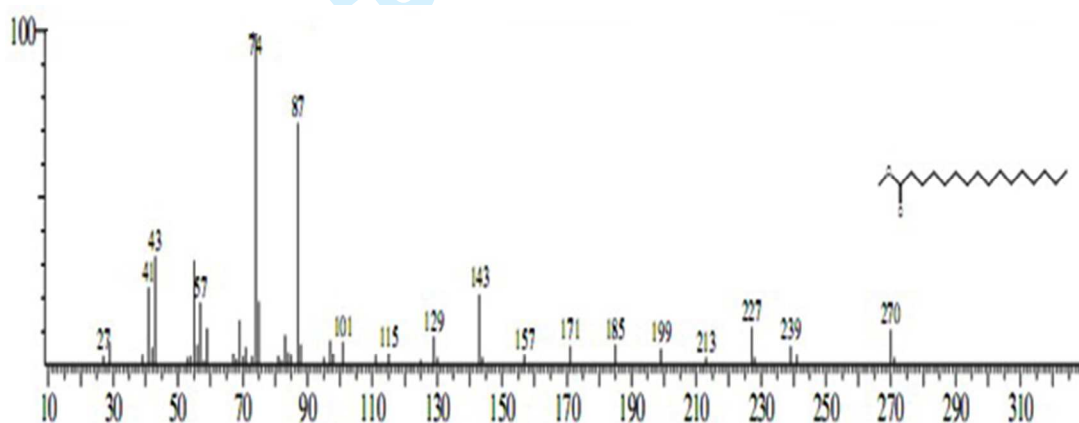


Fig. 3 Mass spectrum of the major compound of methanolic fraction (ME-F2): 5-(Hydroxymethyl)-2-furancarboxaldehyde.

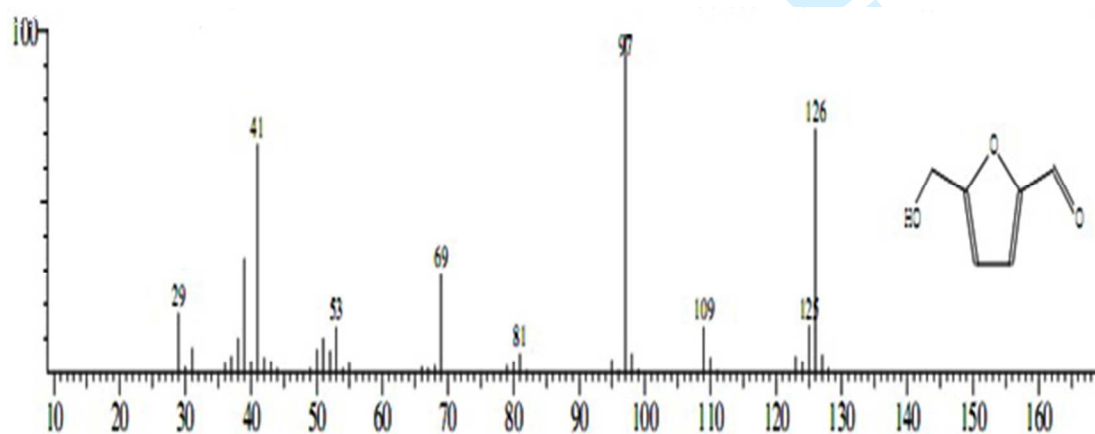


Fig. 4 Mass spectrum of the major compound of methanolic fraction (ME-F2): Hexadecanoic acid, methyl ester.

**Table 2** Phytocomponents identified in the active ethyl-acetate fraction (EE-F2) of *P. hexandrum* by GC-MS.

No.	RT	Compound name	Mol. formula	MW	Compound nature	Peak-area %
1	24.08	<i>n</i> -hexadecanoic acid	C <sub>16</sub> H <sub>32</sub> O <sub>2</sub>	256	Palmitic acid	15.47
2	39.12	(3β)-Stigmast-5-en-3-ol	C <sub>29</sub> H <sub>50</sub> O	414	Steroid	8.62
3	44.53	(3β)-lanost-8-en-3-ol	C <sub>30</sub> H <sub>52</sub> O	458	Steroid	1.14
4	45.45	(3β)-Stigmasta-5,22-dien-3-ol, acetate	C <sub>31</sub> H <sub>50</sub> O <sub>2</sub>	454	Steroid	9.41
5	48.32	Podophyllotoxin, deoxy	C <sub>22</sub> H <sub>22</sub> O <sub>7</sub>	398	Lignan	24.22
6	49.63	Podophyllotoxin	C <sub>22</sub> H <sub>22</sub> O <sub>8</sub>	414	Lignan	18.91
7	51.22	Epiisopodophyllotoxin-acetate	C <sub>24</sub> H <sub>24</sub> O <sub>9</sub>	456	Lignan	21.13
8	53.67	2,4-Hexadienedioic acid, 3,4-diethyl-, dimethyl ester, (Z,Z)	C <sub>26</sub> H <sub>30</sub> O <sub>2</sub>	374	Fatty acid ester	1.10

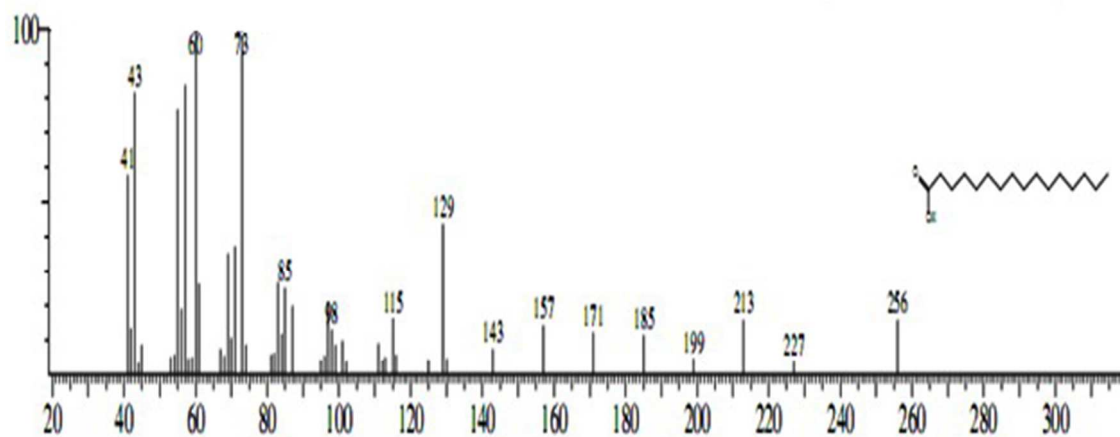


Fig. 5 Mass spectrum of the major compound of methanolic fraction (ME-F2): *n*-hexadecanoic acid.

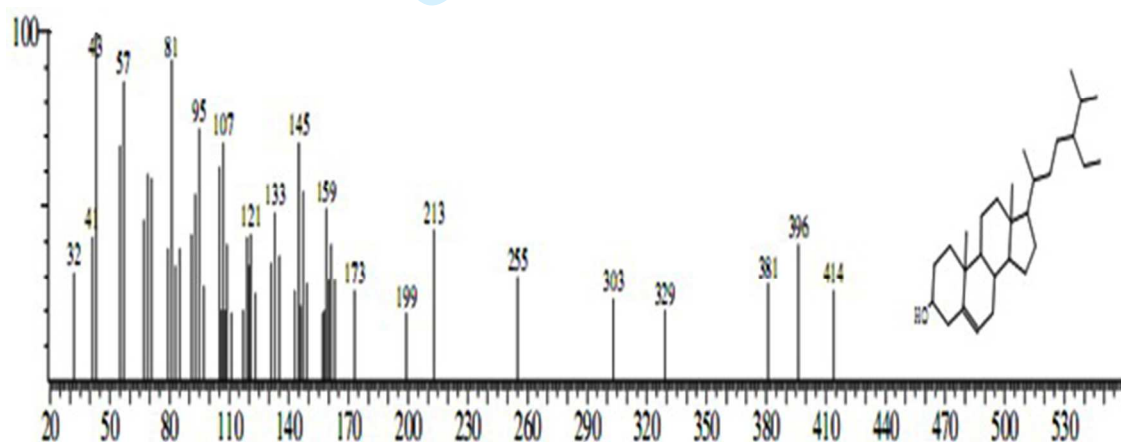


Fig. 6 Mass spectrum of the major compound of methanolic fraction (ME-F2): (3 $\beta$ )-Stigmast-5-en-3-ol.

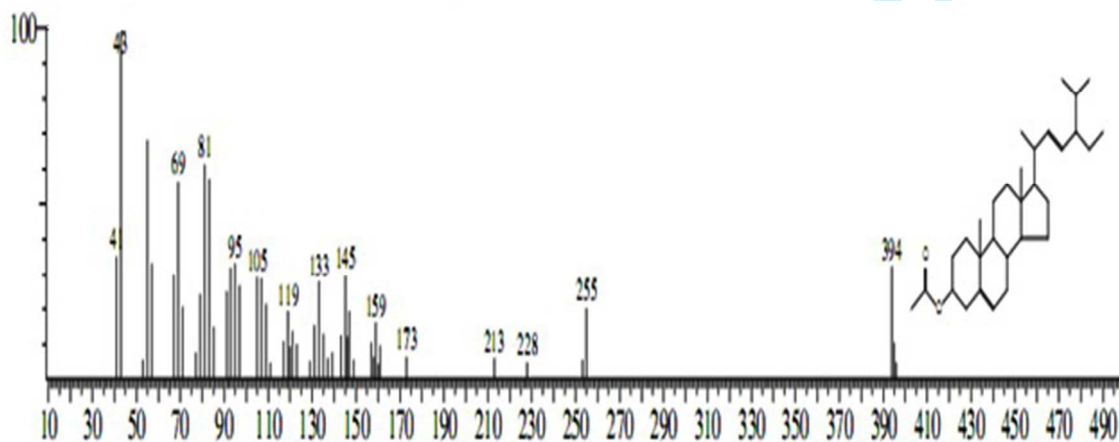


Fig. 7 Mass spectrum of the major compound of methanolic fraction (ME-F2): (3 $\beta$ )-Stigmasta-5,22-dien-3-ol, acetate.

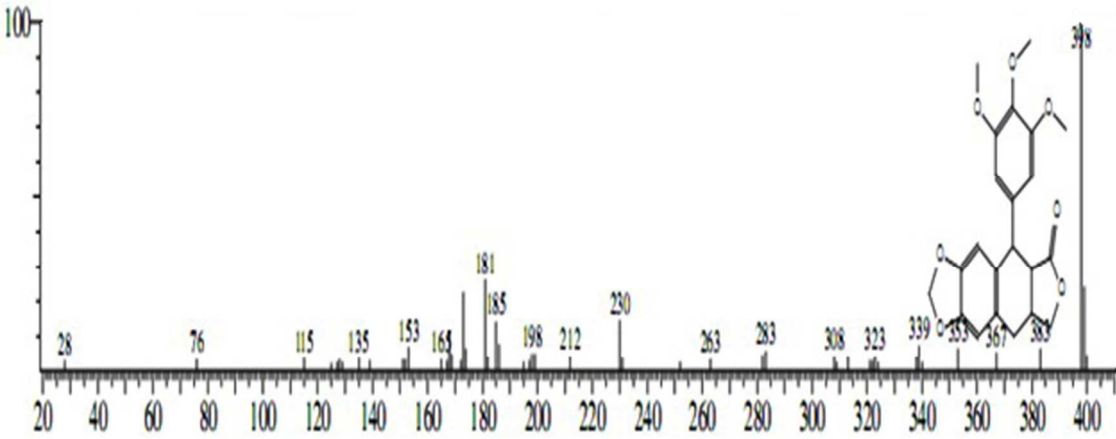


Fig. 8 Mass spectrum of the major compound of methanolic fraction (ME–F2): Podophyllotoxin, deoxy.

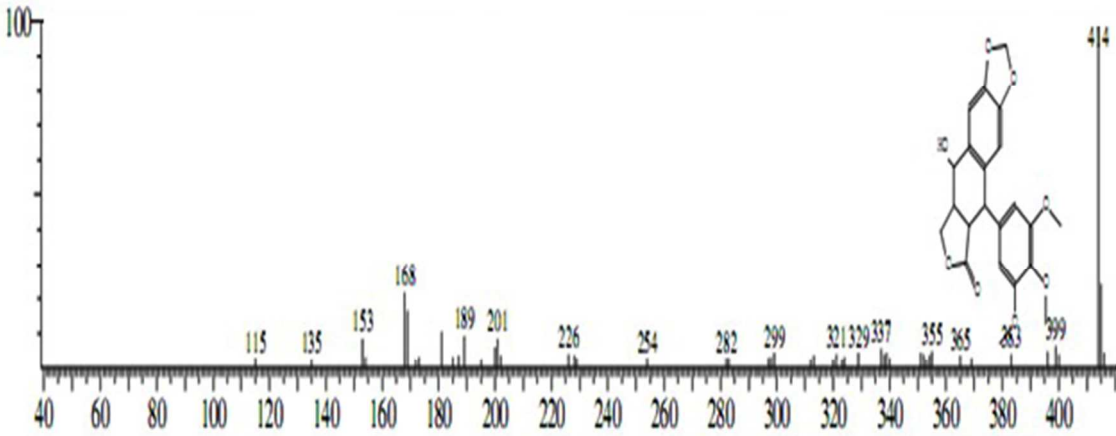


Fig. 9 Mass spectrum of the major compound of methanolic fraction (ME–F2): podophyllotoxin.

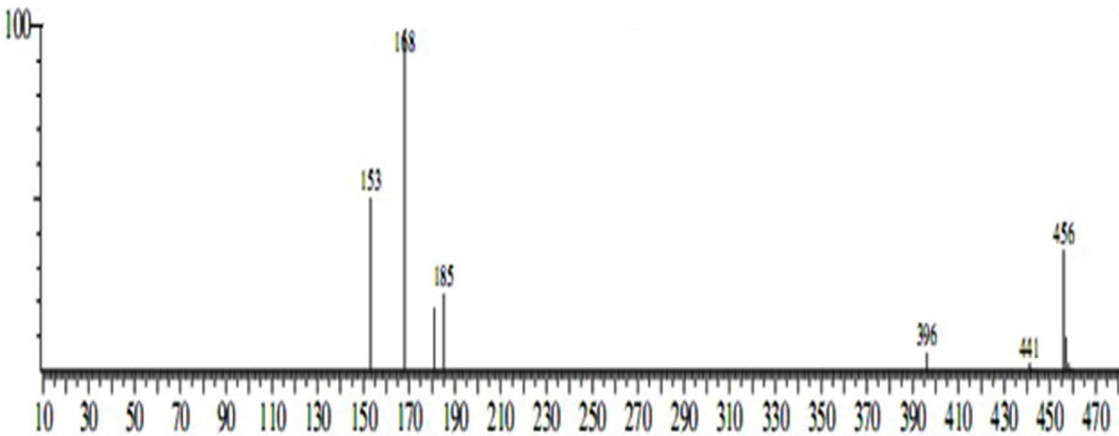


Fig. 10 Mass spectrum of the major compound of methanolic fraction (ME–F2): Epiisopodophyllotoxin-acetate.